

INSL3 (K-12): sc-48550

BACKGROUND

Insulin-like factor 3 (INSL3), also designated leydig insulin-like peptide (Ley IL) and relaxin-like factor (RLF), is a peptide hormone in the relaxin family which is secreted from the testicular leydig cells and ovarian theca interna cells. INSL3 is involved in gonadal and other physiological processes. Structurally similar to relaxin and Insulin, INSL3 differs from the two in that it signals through a G protein-coupled receptor, LGR8. INSL3/LGR8 signaling is involved in gubernaculum development and transabdominal testicular descent during development. Abnormal INSL3 production or action by the fetal testes causes cryptorchidism, a developmental defect of the urogenital tract in human males wherein the testes do not descend into the scrotum during embryonic development. Infertility and the development of germ-cell tumors are two potential risks for individuals with cryptorchidism.

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CHROMOSOMAL LOCATION

Genetic locus: INSL3 (human) mapping to 19p13.11.

SOURCE

INSL3 (K-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of INSL3 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-48550 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

INSL3 (K-12) is recommended for detection of INSL3 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

INSL3 (K-12) is also recommended for detection of INSL3 in additional species, including canine and porcine.

Suitable for use as control antibody for INSL3 siRNA (h): sc-60854, INSL3 shRNA Plasmid (h): sc-60854-SH and INSL3 shRNA (h) Lentiviral Particles: sc-60854-V.

Molecular Weight of INSL3: 7 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.